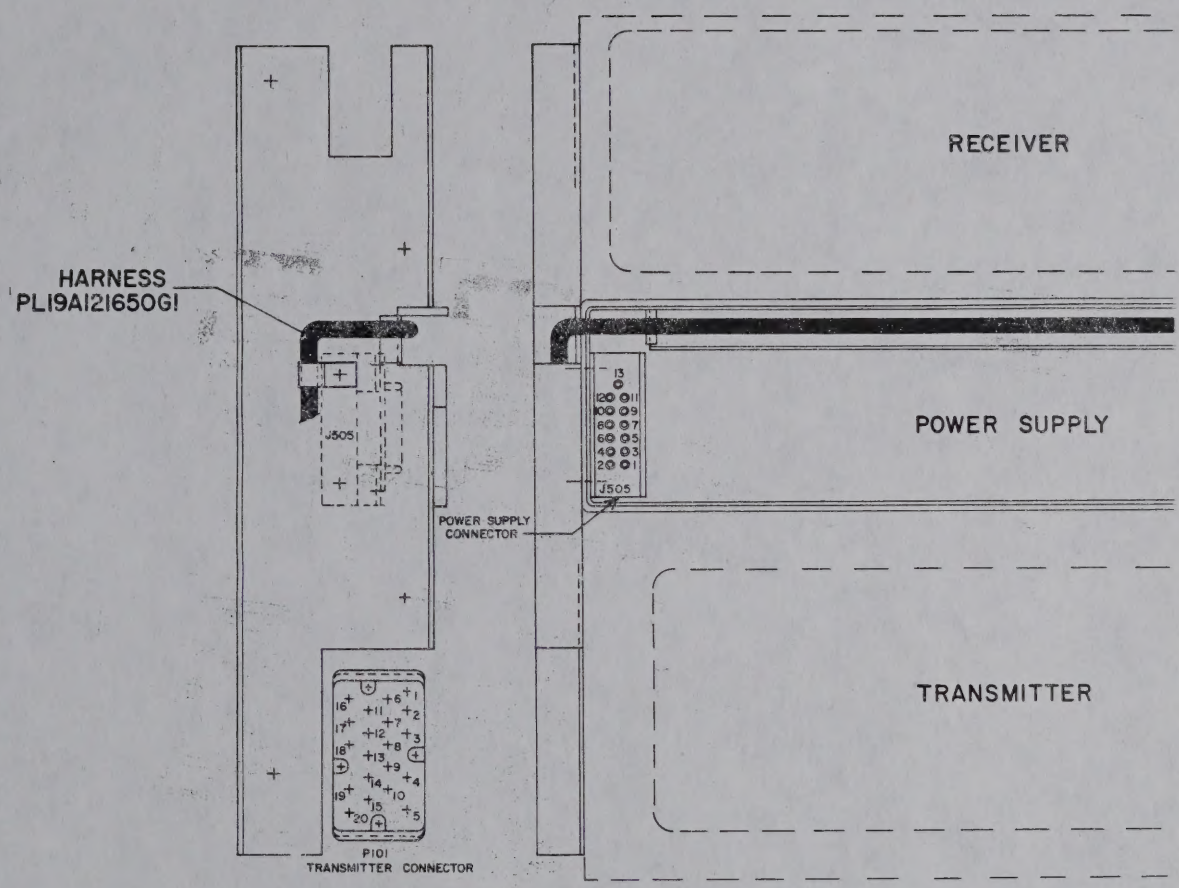
SYSTEM FRAME & HARNE

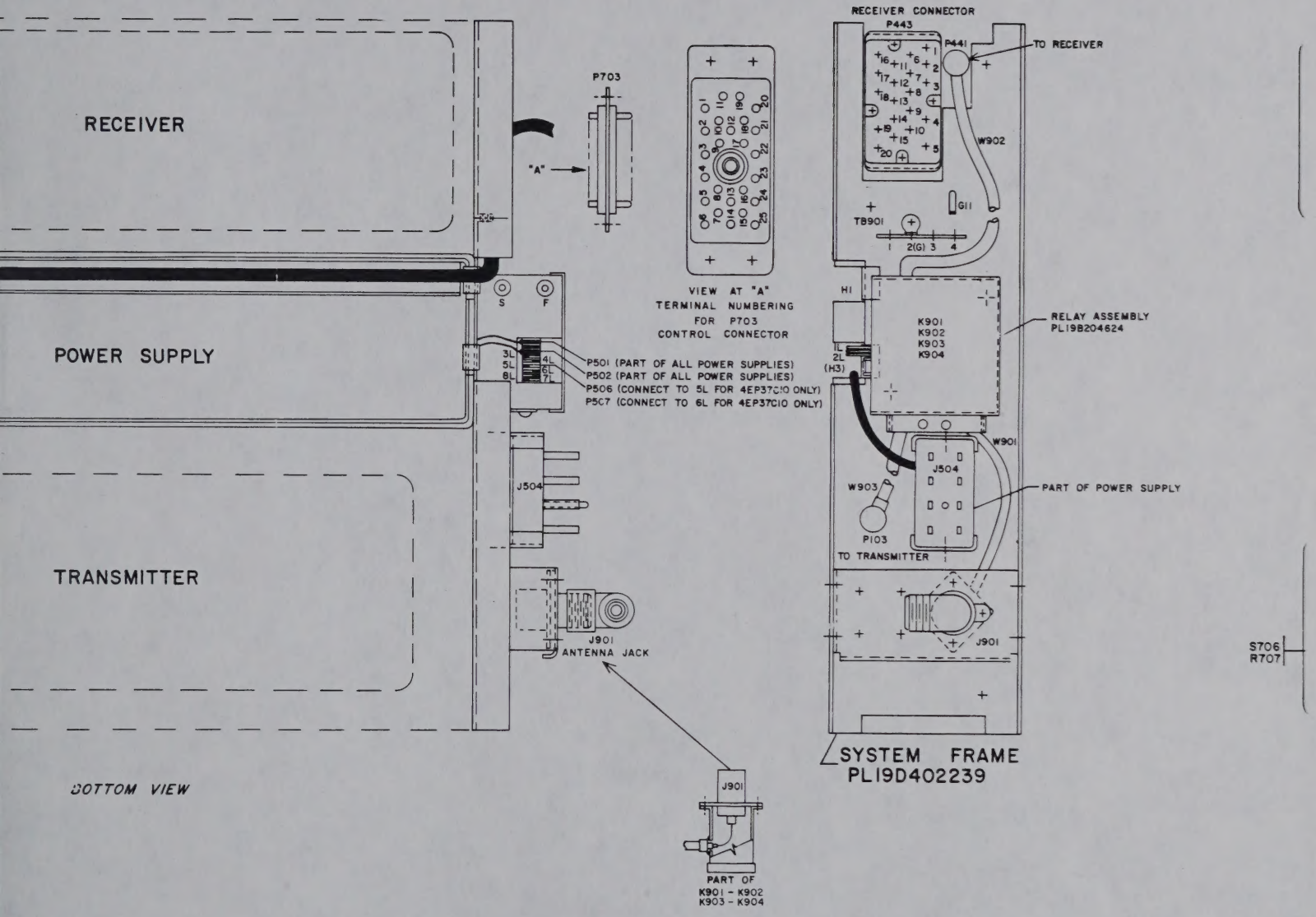


BOTTOM VIEW

OUTLINE DIAGRAM

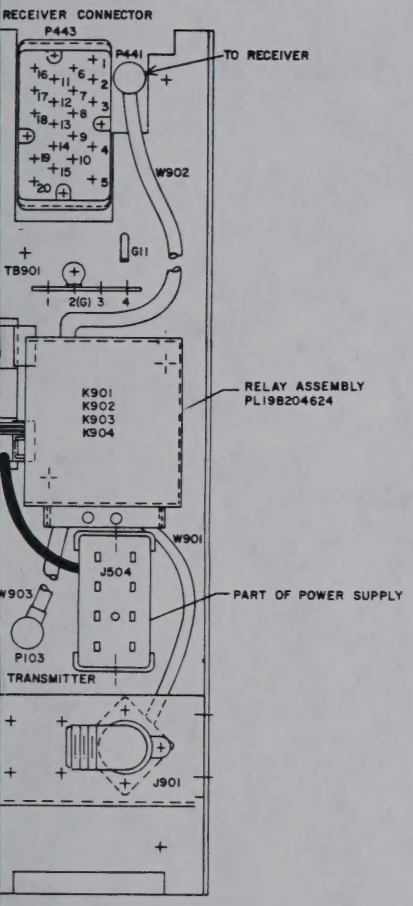
MASTR CONTROL UNIT
MODELS 4EC59A50-57 & 4EC59A66-73

EM FRAME & HARNESS

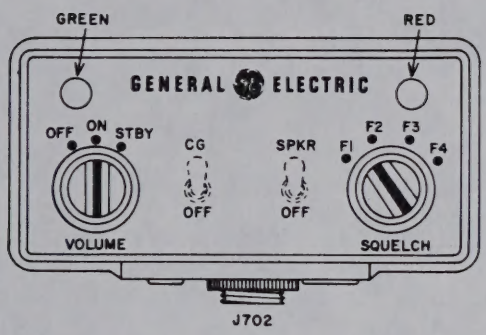


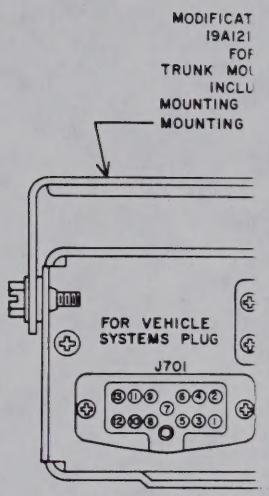
(19D402582, Rev. 3)

CONTROL UNIT



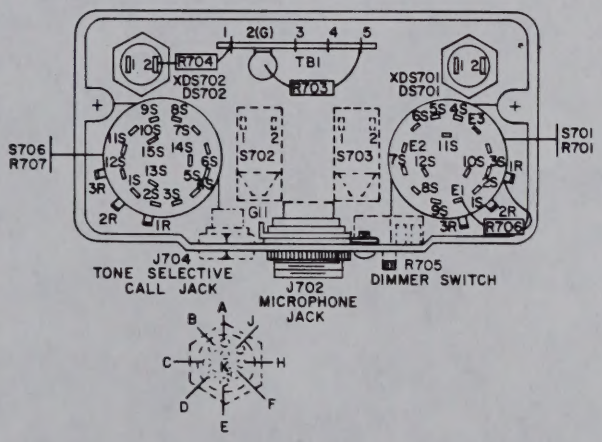
FRONT VIEW





SYMBOL	
R701	VOLU
R707	SQUE
S701	OFF-(
S702	SPEA(
S703	CHAN
S706	FREQ

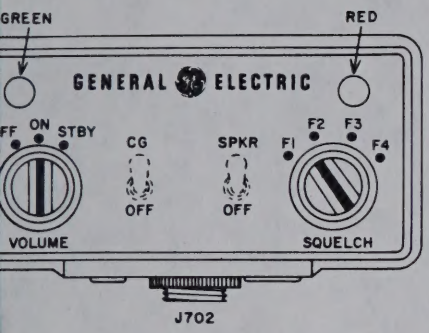
BACK VIEW

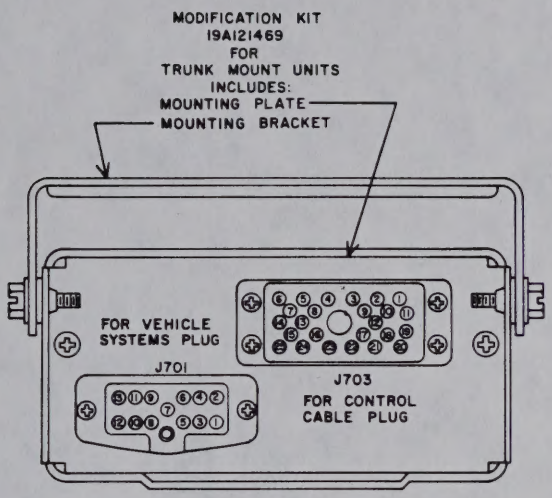


(19C303819, Rev. 1)

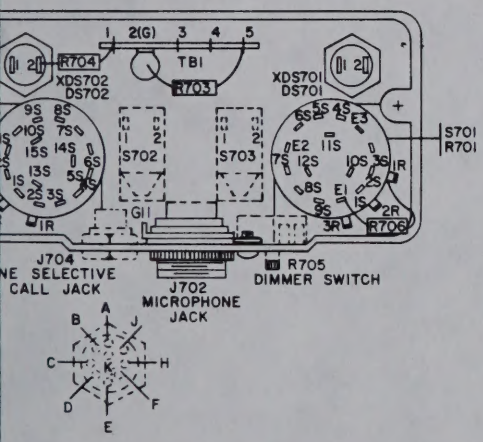
CONTROL UNIT

FRONT VIEW



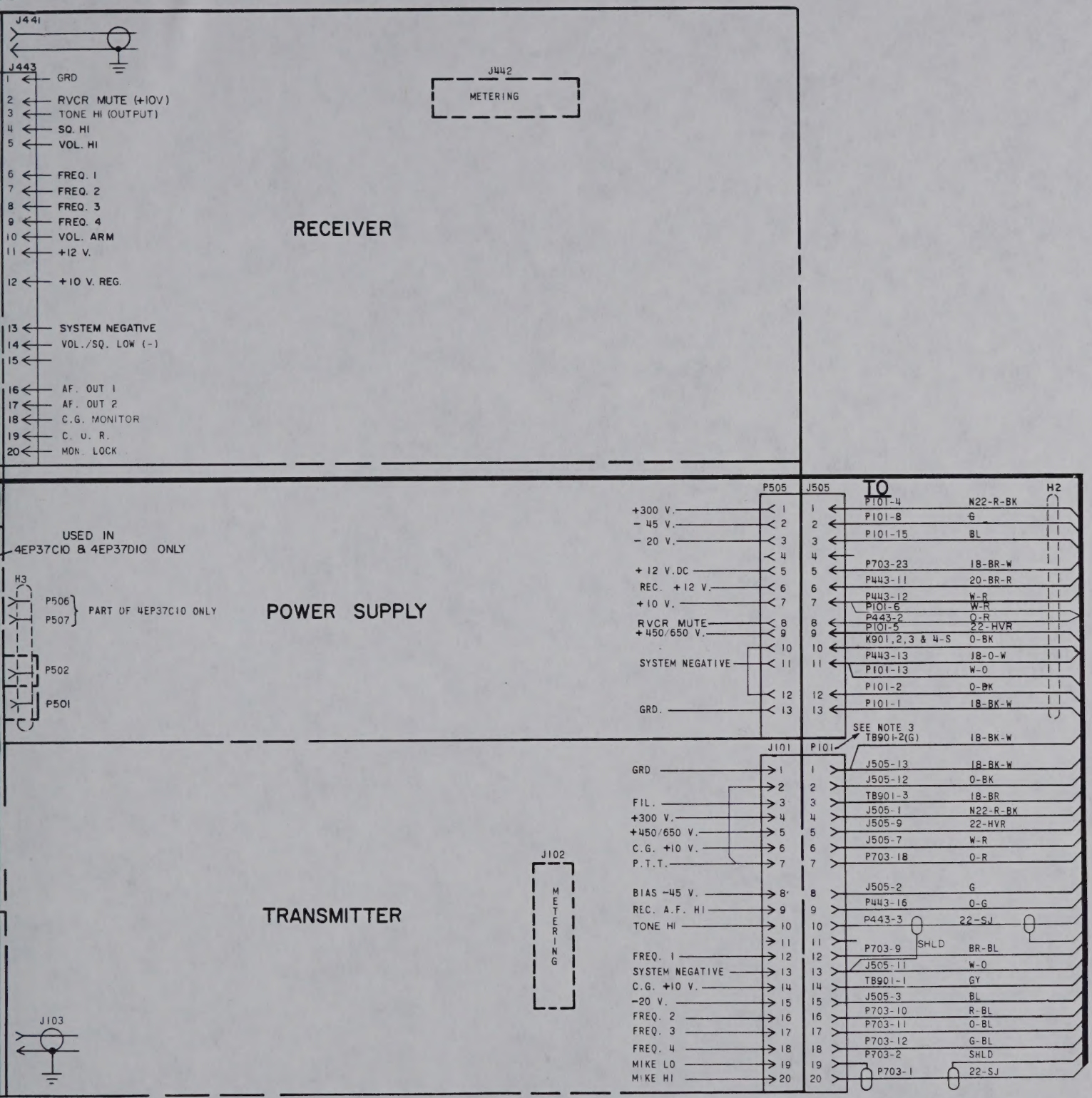


BACK VIEW



SYMBOL	FUNCTION
R701	VOLUME CONTROL
R707	SQUELCH CONTROL
S701	OFF-ON-STBY CONTROL
S702	SPEAKER-OFF
S703	CHANNEL GUARD-OFF
S706	FREQUENCY SELECTOR

(19C303819, Rev. 1)

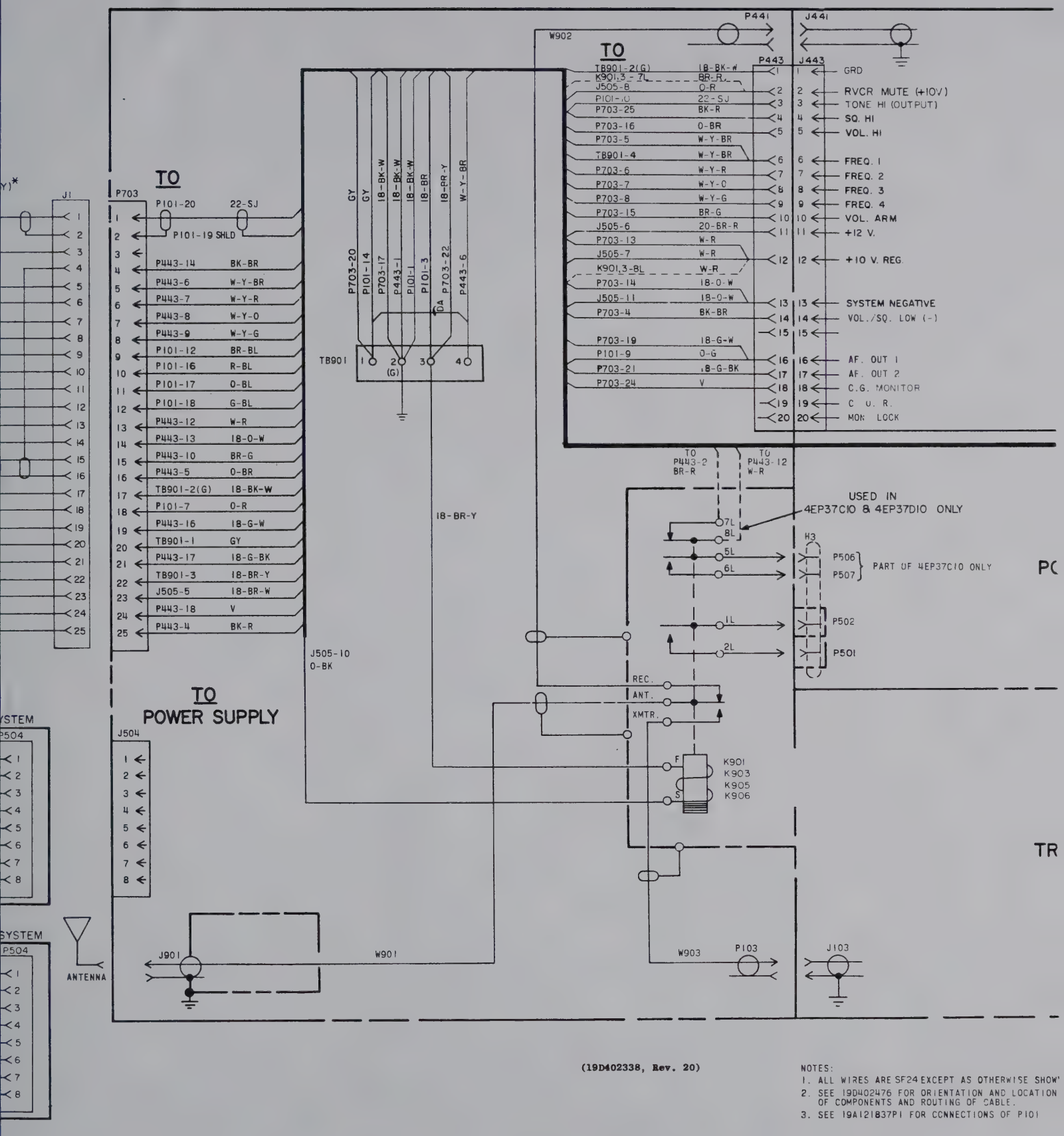


NOTES:
1. ALL WIRES ARE SF24 EXCEPT AS OTHERWISE SHOWN.
2. SEE 19D402476 FOR ORIENTATION AND LOCATION OF COMPONENTS AND ROUTING OF CABLE.
3. SEE 19A121837P1 FOR CONNECTIONS OF P101

SCHEMATIC & INTERCONNECTION DIAGRAM

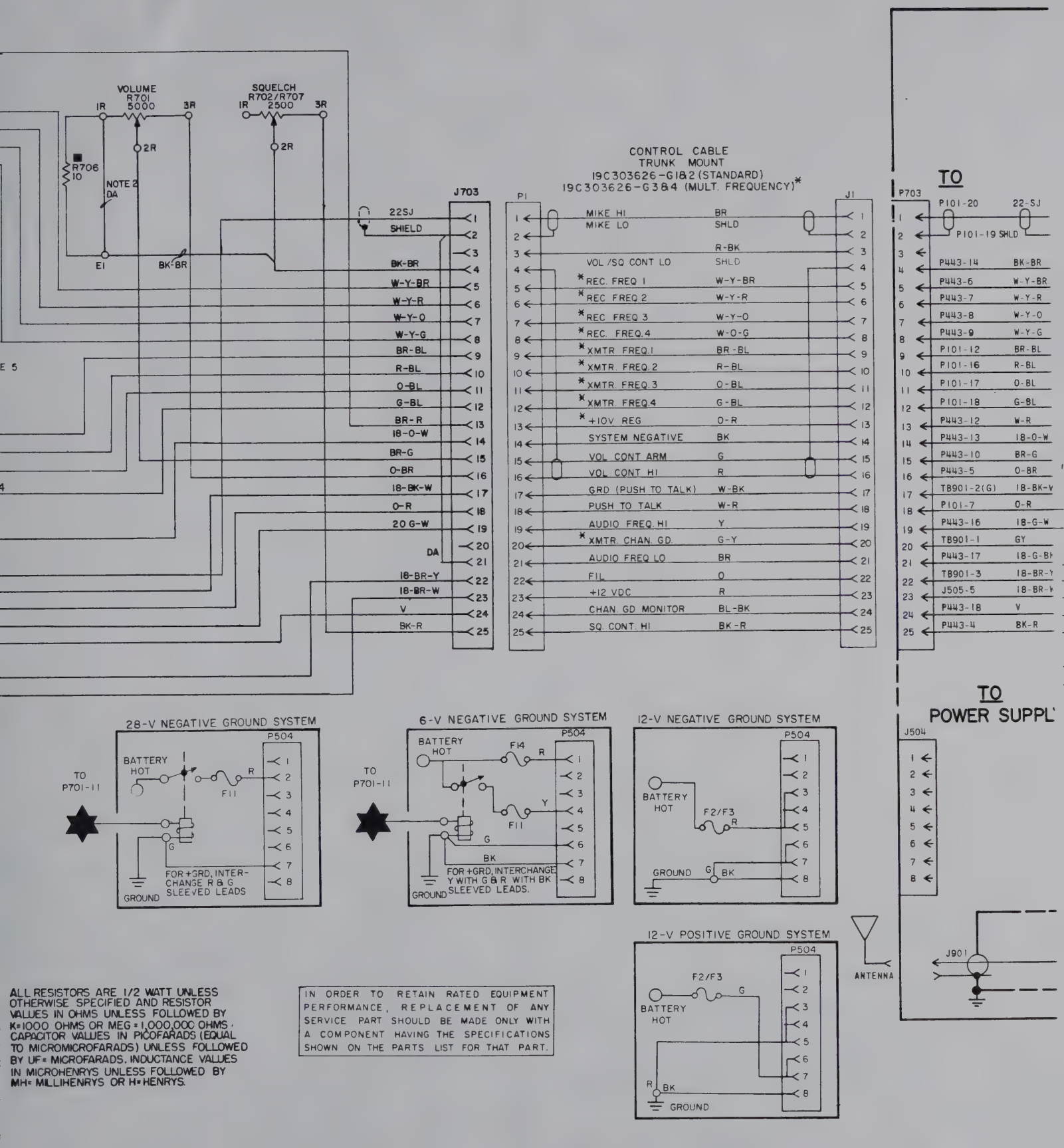
MASTR CONTROL UNIT
MODELS 4EC59A50-57 & 4EC59A66-73

SYSTEM FRAME AND HARNESS



(19D402338, Rev. 20)

NOTES:
1. ALL WIRES ARE SF24 EXCEPT AS OTHERWISE SHOWN
2. SEE 19D402476 FOR ORIENTATION AND LOCATION OF COMPONENTS AND ROUTING OF CABLE.
3. SEE 19A121837P1 FOR CONNECTIONS OF P101



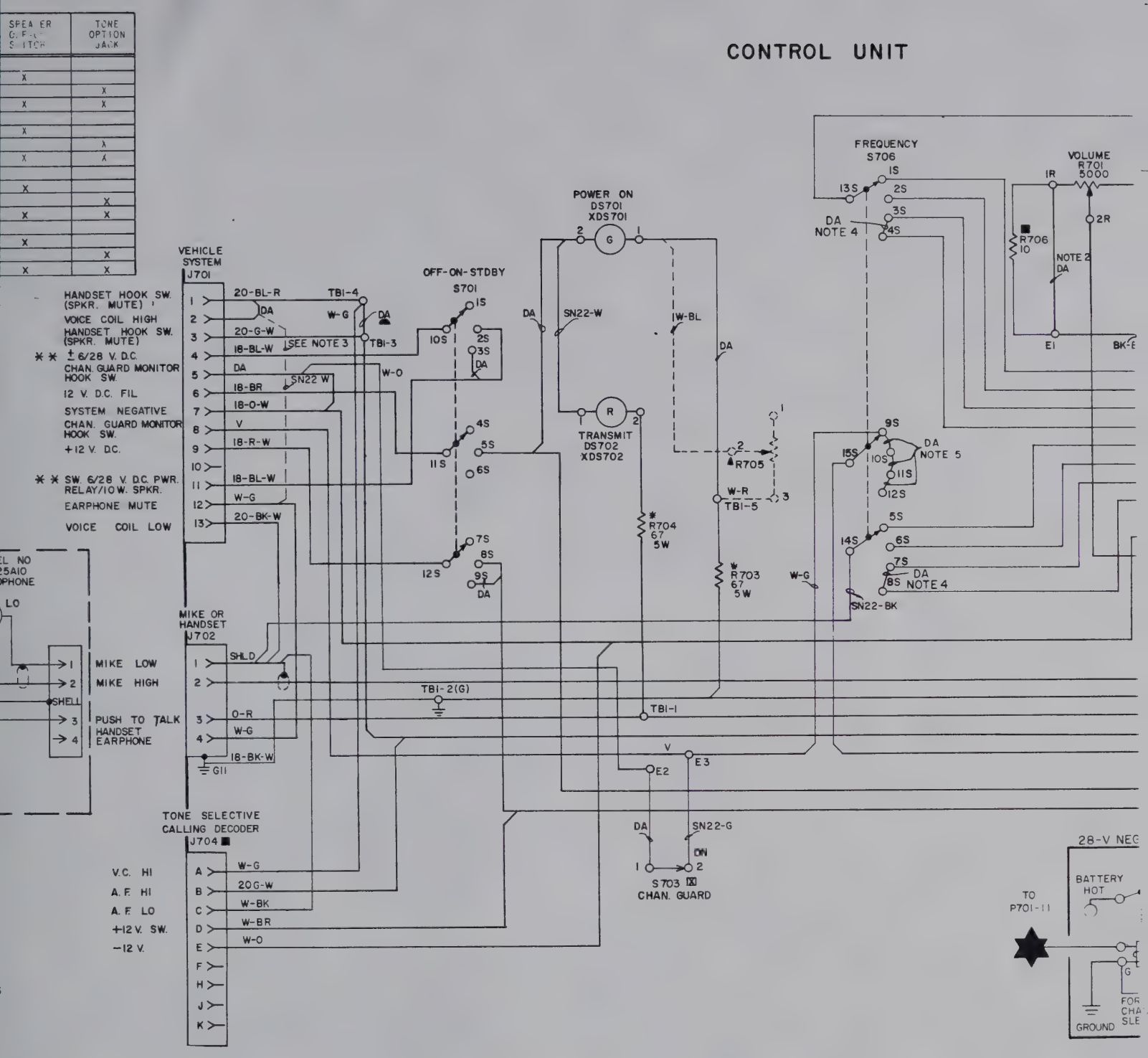
ALL RESISTORS ARE 1/2 WATT UNLESS OTHERWISE SPECIFIED AND RESISTOR VALUES IN OHMS UNLESS FOLLOWED BY K=1000 OHMS OR MEG=1,000,000 OHMS. CAPACITOR VALUES IN PICOFARADS (EQUAL TO MICROMICROFARADS) UNLESS FOLLOWED BY UF=MICROFARADS. INDUCTANCE VALUES IN MICROHENRYS UNLESS FOLLOWED BY MH=MILLIHENRYS OR H=HENRYS.

IN ORDER TO RETAIN RATED EQUIPMENT PERFORMANCE, REPLACEMENT OF ANY SERVICE PART SHOULD BE MADE ONLY WITH A COMPONENT HAVING THE SPECIFICATIONS SHOWN ON THE PARTS LIST FOR THAT PART.

(RC-1186E)

CONTROL UNIT

SPEAKER G.F.L. SWITCH	TONE OPTION JACK
X	
	X
X	X
X	
	X
X	X
X	
	X
X	X
X	
	X
X	X

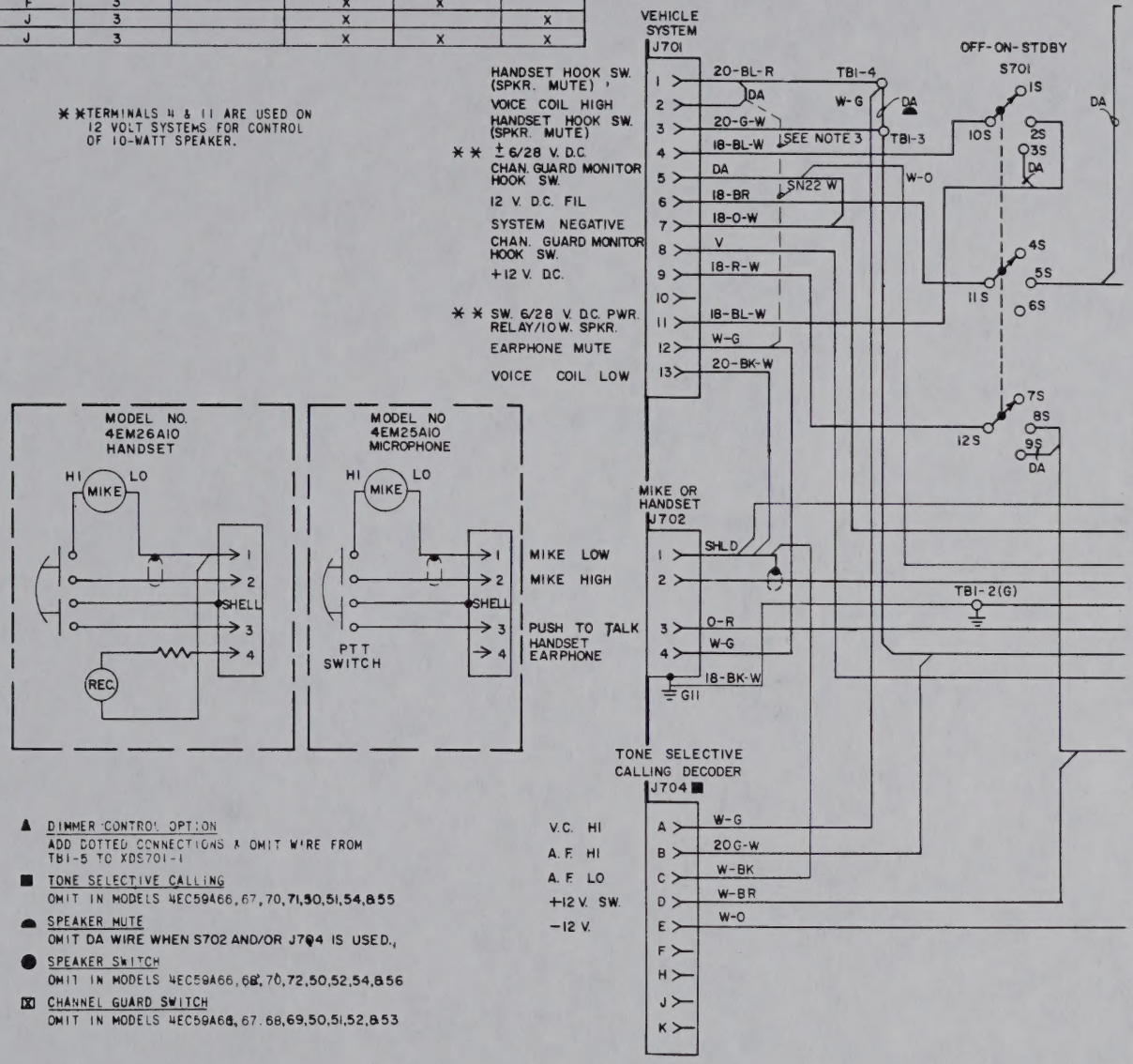


(19D402340, Rev. 18)

ALL RESISTORS ARE 1/2 WATT U
OTHERWISE SPECIFIED AND RESI
VALUES IN OHMS UNLESS FOLLO
K=1000 OHMS OR MEG=1,000,0(
CAPACITOR VALUES IN PICOFARA
TO MICROMICROFARADS) UNLESS
BY UF= MICROFARADS. INDUCTANC
IN MICROHENRYS UNLESS FOLLO
MH= MILLIHENRYS OR H=HENRYS

MODEL NUMBER	REV. LETTER	NO. OF FREQ.		CHANNEL GUARD MONITOR SWITCH	SPEAKER OFF-ON SWITCH	TONE OPTION JACK
4EC59A66	F	4				
4EC59A67	F	4			X	
4EC59A68	J	4				X
4EC59A69	J	4			X	X
4EC59A70	F	4		X		
4EC59A71	F	4		X	X	
4EC59A72	J	4		X		X
4EC59A73	J	4		X	X	X
4EC59A50	F	3				
4EC59A51	F	3			X	
4EC59A52	J	3				X
4EC59A53	J	3			X	X
4EC59A54	F	3		X		
4EC59A55	F	3		X	X	
4EC59A56	J	3		X		X
4EC59A57	J	3		X	X	X

** TERMINALS 4 & 11 ARE USED ON 12 VOLT SYSTEMS FOR CONTROL OF 10-WATT SPEAKER.



▲ DIMMER CONTROL OPTION
ADD DOTTED CONNECTIONS & OMIT WIRE FROM TB1-5 TO XDS701-1

■ TONE SELECTIVE CALLING
OMIT IN MODELS 4EC59A66, 67, 70, 71, 50, 51, 54, 855

◗ SPEAKER MUTE
OMIT DA WIRE WHEN S702 AND/OR J704 IS USED.

● SPEAKER SWITCH
OMIT IN MODELS 4EC59A66, 68, 70, 72, 50, 52, 54, 856

⊠ CHANNEL GUARD SWITCH
OMIT IN MODELS 4EC59A66, 67, 68, 69, 50, 51, 52, 853

NOTES:

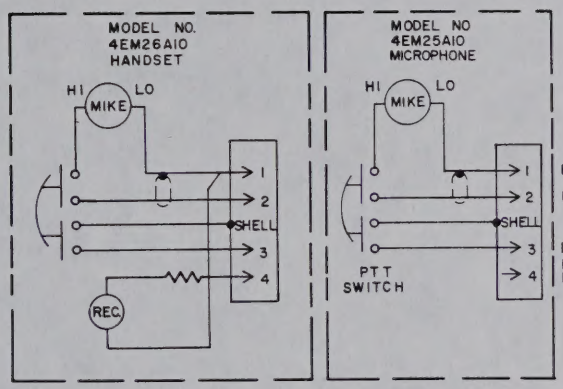
1. ALL WIRES SF24 UNLESS OTHERWISE SPECIFIED.
2. OMIT DA WIRE WHEN 9706 IS USED.
3. ADD W WIRE WHEN PLESSEY 8204970G1 HOOKSWITCH IS USED.
4. PRESENT IN THREE FREQ. MODELS ONLY.
5. FOR CHANNEL GUARD ON F1 ONLY REMOVE DA WIRE.

MODEL NUMBER	REV. LETTER	NO. OF FREQ.		CHANNEL GUARD MONITOR SWITCH	SPEAKER O.F.-O.N. SWITCH	TONE OPTION JACK
4EC59A66	F	4				
4EC59A67	F	4			X	
4EC59A68	J	4				X
4EC59A69	J	4			X	X
4EC59A70	F	4		X		
4EC59A71	F	4		X	X	
4EC59A72	J	4		X		X
4EC59A73	J	4		X	X	X
4EC59A50	F	3				
4EC59A51	F	3			X	
4EC59A52	J	3				X
4EC59A53	J	3			X	X
4EC59A54	F	3		X		
4EC59A55	F	3		X	X	
4EC59A56	J	3		X		X
4EC59A57	J	3		X	X	X

** TERMINALS 4 & 11 ARE USED ON 12 VOLT SYSTEMS FOR CONTROL OF 10-WATT SPEAKER.

VE SY J

HANDSET HOOK SW. (SPKR. MUTE)
VOICE COIL HIGH
HANDSET HOOK SW. (SPKR. MUTE)
** ± 6/28 V. D.C.
CHAN. GUARD MONITOR HOOK SW.
12 V. D.C. FIL
SYSTEM NEGATIVE
CHAN. GUARD MONITOR HOOK SW.
+12 V. D.C.
** SW. 6/28 V. D.C. PWR. RELAY/10W. SPKR.
EARPHONE MUTE
VOICE COIL LOW



MIK HA J

TONE CALLI J

▲ DIMMER CONTROL OPTION
ADD DOTTED CONNECTIONS & OMIT WIRE FROM TB1-5 TO XDS701-1

■ TONE SELECTIVE CALLING
OMIT IN MODELS 4EC59A66, 67, 70, 71, 50, 51, 54, 855

◓ SPEAKER MUTE
OMIT DA WIRE WHEN S702 AND/OR J704 IS USED.

● SPEAKER SWITCH
OMIT IN MODELS 4EC59A66, 68, 70, 72, 50, 52, 54, 856

⊠ CHANNEL GUARD SWITCH
OMIT IN MODELS 4EC59A66, 67, 68, 69, 50, 51, 52, 853

V.C. HI
A.F. HI
A.F. LO
+12 V. SW.
−12 V.

NOTES:

1. ALL WIRES SF24 UNLESS OTHERWISE SPECIFIED.
2. OMIT DA WIRE WHEN 9706 IS USED.
3. ADD W WIRE WHEN PLN B204970G1 HOOKSWITCH IS USED.
4. PRESENT IN THREE FREQ. MODELS ONLY.
5. FOR CHANNEL GUARD ON F1 ONLY REMOVE DA WIRE.